

Field of Invention

5 purchase and stated world-wide network-related goals.

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relevant user data includes the user's inbound source "origin" such as a unique source ID of a banner "advertisement" on a search engine Internet site.

U.S. Patent No. 5,227,874, issued to *Von Kohorn* is directed towards a method for measuring the effectiveness of stimuli on decisions of shoppers. Two signals are broadcast by a central station to each of two receiving stations. One of these two signals is a program signal for presenting on a television screen a program generated in the studio. The second of the two signals is an instructional or command signal for operation of a response unit. The instructional signal provides appropriate commands to the response unit for evaluating, rejecting, or accepting and scoring audience responses to questions raised in the televised program. In both of the receiving stations the response unit includes a keyboard whereby a person in the remote viewing audience enters a response. The response unit includes a dispenser that dispenses a record of score and/or responses in a permanent recording medium such as a card of plastic or similar material, including a strip of magnetizable material upon which the score and/or responses have been recorded.

U.S. Patent No. 6,006,197 issued to *D'Eon et al.* is directed toward a system and method for assessing effectiveness of Internet marketing campaigns. A PC can access one or more sites that can present one or more banner advertisements. When one of the advertisements is clicked on by a user to, for example, hyperlink to the site of the advertiser represented by the advertisement, tracker software unobtrusively tracks the user around the advertiser's site. The advertisement identification, although being ignored as part of an actual network path, is buffered and then correlated with the visitor identification. The tracker module records the identifications of users, as represented by the visitor identifications, who click on the advertisements. Each time a user clicks on one of the advertisements, an

U.S. Patent No. 5,948,061 issued to *Merriman et al.* is directed towards a method of delivery, targeting and measuring advertising over networks. As part of the “click through”

10 The ad server process notes that a “click-through” for an advertisement has occurred and updates various databases. While other variations exist, the above-described designs for systems for correlating advertising media purchases with product sales or other stated goals are typical of those encountered in the prior art.

15 Internet related advertising media to correlate these purchases to stated goals related to Internet activity. Such goals include online sales, downloads, arrivals at specified web addresses, user data capture, sales lead generation, identification of dealer locations, viewing of specific text, viewing of specific images and receiving sound transmissions. Non-Internet related media include movies, video, television, interactive television, radio and print media.

“residual” period. It is yet a further objective to provide graphical and tabular statistical analysis tools for analyzing and displaying the correlations determined between the media purchases and the achieved goals.

While some of the objectives of the present invention are disclosed in the prior art,
 5 none of the inventions found include all of the requirements identified.

Summary of the Invention

The present invention addresses most of the deficiencies of prior art media purchase goal correlation system inventions and satisfies all of the objectives described above.

10 A media purchase goal correlation system providing the desired features may be constructed from the following components. An advertising media purchase is provided. The media purchase relates to a predetermined subject matter and is placed in movies, video, television, interactive television, radio or print media within a stated geographic area. The media purchase includes either an Internet website address or other unique trackable identifier for
 15 accessing further information related to the subject matter of the media purchase.

A first database is provided. The first database contains records relating to the start date, end date, and stated geographic area for a plurality of media purchases. Means are provided for inputting and maintaining records in the first database. Means are provided for determining the geographic location associated with an Internet Protocol address. Means are
 20 provided for grouping the geographic locations into uniform stated geographic areas.

A second database is provided. The second database contains records correlating Internet Protocol addresses of Internet users with stated geographic areas. Means are provided for inputting and maintaining records in the second database. Means are provided for

determining the Internet Protocol address of an Internet user accessing the Internet website address. Means are provided for tracking the timing of Internet-related goals achieved by the Internet user related to his accessing the Internet website address. Means are provided for accessing the second database and assigning a stated geographic area to the user's Internet-related goals.

Means are provided for inputting the timing of occurrences of the Internet-related goals and assigned stated geographic area to the first database. Means are provided for correlating and reporting the timing of Internet-related goals achieved by the Internet user with the start date, end date and a residual period for media purchases within the stated geographic area.

In a variant of the invention, a media purchase effectiveness report is provided. The effectiveness report includes a media type, media name, stated geographic area of the media purchase, start date, end date, summary of Internet traffic originating in the stated geographic area between the start and end dates, and summary of Internet-related goals achieved for Internet users located within the stated geographic area between the start and end dates and during the residual period. The media purchase effectiveness report will permit a media buyer to correlate volume of Internet traffic and related goal achievement resulting from a media purchase in a stated geographic area.

In another variant, the media effectiveness report is compiled continuously from the start date to the end date of the media purchase and for the residual period and is made available through the Internet, whereby a media buyer may evaluate the initial and residual Internet-related impact of any media purchase.

In still another variant, the Internet-related goals comprise sales, downloads, arrivals at specified web addresses, user data capture, sales lead generation, identification of dealer locations, viewing of specific text, viewing of specific images and receiving sound transmissions.

5 In a further variant of the invention, the means for correlating and reporting the timing of Internet-related goals achieved by an Internet user with the start date, end date and a residual period for media purchases within the stated geographic area includes graphical representations of media purchases for specified periods for stated geographical areas. It further includes graphical representations of timed occurrences of media goals achieved in the
10 stated geographical areas, and graphical representations of the correlation of the timed occurrences of media goals with the media purchase periods for the areas.

In another variant, the means for correlating and reporting the timing of Internet-related goals achieved by an Internet user with the start date, end date and a residual period for media purchases within the stated geographic area includes pattern recognition systems for
15 analyzing data yielding the graphical representations to produce a media purchase decision.

In still another variant, the means for correlating and reporting the timing of Internet-related goals achieved by an Internet user with the start date, end date and a residual period for media purchases within the stated geographic area includes baseline statistical reports of media goals achieved absent media purchases, statistical reports detailing media goals
20 achieved after media purchases, and reports comparing baseline statistics to those resulting from media purchases in stated geographical areas.

In yet another variant of the invention, the means for correlating and reporting the timing of Internet-related goals achieved by an Internet user with the start date, end date and a

residual period for media purchases within the stated geographic area includes historical reports detailing effectiveness of media purchases in stated geographical areas and means for comparing the historical reports to current media goal achievement reports to determine a differential effect of new media purchases. Such comparisons are useful for predicting the effect of future media purchases.

Additional tabular reports, illustrating unique Internet user visits to an Internet web site, related sales and a percentage showing the conversion of the visits to sales for identified media purchasers, in stated geographic areas over various time periods are also provided.

An appreciation of the other aims and objectives of the present invention and an understanding of it may be achieved by referring to the accompanying drawings and the detailed description of a preferred embodiment.

Description of the Drawings

Figure 1 is a schematic illustration of media purchases, a first database containing media purchase and goal achievement data and means for updating the database;

Figure 2 is a schematic illustration of a means for determining a geographic location associated with an Internet Protocol address;

Figure 3 is a schematic illustration of a means for grouping geographic locations into uniform stated geographic areas;

Figure is a schematic illustration of a second database containing data identifying stated geographic areas for Internet Protocol addresses and means for updating the database;

Figure 5 is a schematic illustration of a means for tracking the timing of Internet-related goals achieved by an Internet user related to his accessing of an Internet web site;

Figure 6 is a schematic illustration of a media purchase effectiveness report;

Figure 7 is a schematic illustration of a means for accessing the **Figure 6** report over the Internet;

Figure 8 is a schematic illustration of a graphical representation of media purchases
5 for a stated time period;

Figure 9 is a schematic illustration of a graphical representation of media goals achieved for a stated time period;

Figure 10 is a schematic illustration of a graphical representation of a correlation of media goals achieved with purchases for a stated time period;

10 **Figure 11** is a schematic illustration of a baseline report for media goals achieved without a media purchase over a stated period;

Figure 12 is a schematic illustration of a report for media goals achieved with a media purchase over a stated period;

15 **Figure 13** is a schematic illustration of a report detailing percent change between the baseline period and subsequent period with media purchase;

Figure 14 is a schematic illustration of a historical media purchase effectiveness report;

Figure 15 is a schematic illustration of a report comparing the historical period with a period including media purchases showing percentage and ratio of changes in media goals
20 achieved;

Figure 16 is a schematic illustration of use of a pattern recognition system to develop media purchase decisions;

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Figure 17 is a schematic illustration of a tabular report illustrating unique Internet user visits to an Internet web site, related sales and a percentage showing the conversion of the visits to sales for a media purchaser;

Figure 18 is a schematic illustration of a tabular report illustrating unique Internet user visits to an Internet web site, related sales and a percentage showing the conversion of the visits to sales for stated geographic areas also illustrating stations for media purchases;

Figure 19 is a schematic illustration of a tabular report illustrating unique Internet user visits to an Internet web site on a daily basis, related sales and a percentage showing the conversion of the visits to sales for stated geographic areas also illustrating stations for media purchases; and

Figure 20 is a schematic illustration of a graphical representation showing computed and predicted effects of media purchases.

Detailed Description of the Preferred Embodiment

Figures 1-5 illustrate a media purchase goal correlation system providing the desired features that may be constructed from the following components. As illustrated in **Figure 1**, an advertising media purchase **14** is provided. The media purchase **14** relates to a predetermined subject matter **18** and is placed in movies, video, television, interactive television, radio or print media within a stated geographic area **22**. The media purchase **14** includes either an Internet website address **26** or other unique trackable identifier for accessing further information related to the subject matter **18** of the media purchase **14**.

A first database **30** is provided. The first database **30** contains records **34** relating to the start date **38**, end date **42**, and stated geographic area **22** for a plurality of media purchases

14. Means 46 are provided for inputting and maintaining records 34 in the first database 30. As illustrated in Figure 2, means 50 are provided for determining the geographic location 54 associated with an Internet Protocol address 58. As illustrated in Figure 3, means 62 are provided for grouping the geographic locations 54 into uniform stated geographic areas 22.

5 As illustrated in Figure 4, a second database 66 is provided. The second database 66 contains records 70 correlating Internet Protocol addresses 58 of Internet users 74 with stated geographic areas 22. Means 78 are provided for inputting and maintaining records 70 in the second database 66. As illustrated in Figure 5, means 82 are provided for determining the Internet Protocol address 58 of an Internet user 74 accessing the Internet website address 26.

10 Means 86 are provided for tracking the timing 90 of Internet-related goals 94 achieved by the Internet user 74 related to his accessing the Internet website address 26. As illustrated in Figure 4, means 98 are provided for accessing the second database 66 and assigning a stated geographic area 22 to the user's Internet-related goals 94.

As illustrated in Figure 1, means 102 are provided for inputting the timing 90 of occurrences of the Internet-related goals 94 and assigned stated geographic area 22 to the first database 30. Means 108 are provided for correlating and reporting the timing 90 of Internet-related goals 94 achieved by the Internet user 74 with the start date 38, end date 42 and a residual period 106 for media purchases 14 within the stated geographic area 22.

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In a variant of the invention, as illustrated in Figure 6, a media purchase effectiveness report 110 is provided. The effectiveness report 110 includes a media type 114, media name 118, stated geographic area 22 of the media purchase 14, start date 38, end date 42, summary of Internet traffic 122 originating in the stated geographic area 22 between the start 38 and end dates 42, and summary of Internet-related goals 94 achieved for Internet users 74 located

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within the stated geographic area 22 between the start 38 and end 42 dates and during the residual period 106. The media purchase effectiveness report 110 will permit a media buyer (not shown) to correlate volume of Internet traffic 122 and related goal 94 achievement resulting from a media purchase 14 in a stated geographic area 22.

5 In another variant, as illustrated in Figure 7, the media effectiveness report 110 is compiled continuously from the start date 38 to the end date 42 of the media purchase 14 and for the residual period 106 and is made available through the Internet 128, whereby a media buyer may evaluate the initial and residual Internet-related impact of any media purchase 14.

10 In still another variant, as illustrated in Figure 6, the Internet-related goals 94 comprise sales 130, downloads 134, arrivals at specified web addresses 138, user data capture 142, sales lead generation 144, identification of dealer locations 148, viewing of specific text 152, viewing of specific images 156 and receiving sound transmissions (not shown).

15 In a further variant of the invention, as illustrated in Figures 8-10, the means 108 for correlating and reporting the timing 90 of Internet-related goals 94 achieved by an Internet user 74 with the start date 38, end date 42 and a residual period 106 for media purchases 14 within the stated geographic area 22 includes graphical representations 146 of media purchases 14 for specified periods 150 for stated geographical areas 22, as illustrated in Figure 8. As illustrated in Figure 9, it further includes graphical representations 154 of timed occurrences of media goals 94 achieved in the stated geographical areas 22, and graphical
20 representations 158 of the correlation of the timed occurrences of media goals 94 with the media purchase 14 periods for the areas 22, as illustrated in Figure 10.

In another variant, as illustrated in Figure 16, the means 108 for correlating and reporting the timing of Internet-related goals 94 achieved by an Internet user 74 with the start

date 38, end date 42 and a residual period 106 for media purchases 14 within the stated geographic area 22 includes pattern recognition systems 162 for analyzing data yielding the graphical representations 146, 154, 158 to produce a media purchase decision 166.

In still another variant, as illustrated in **Figures 11-13**, the means 108 for correlating and reporting the timing of Internet-related goals 94 achieved by an Internet user 74 with the start date 38, end date 42 and a residual period 106 for media purchases 14 within the stated geographic area 22 includes baseline statistical reports 170 of media goals 94 achieved absent media purchases 14, as illustrated in **Figure 11**, statistical reports 174 detailing media goals 94 achieved after media purchases 14, as illustrated in **Figure 12**, and reports 178 comparing baseline statistics 170 to those resulting from media purchases 14 in stated geographical areas 22, as illustrated in **Figure 13**. Such comparisons and predictions may also be shown in graphical form as illustrated in **Figure 20**.

In yet another variant of the invention, as illustrated in **Figures 14 and 15**, the means 108 for correlating and reporting the timing of Internet-related goals 94 achieved by an Internet user 74 with the start date 38, end date 42 and a residual period 106 for media purchases 14 within the stated geographic area 22 includes historical reports 182 detailing effectiveness of media purchases 14 in stated geographical areas 22, as illustrated in **Figure 14**, and means 186 for comparing the historical reports 182 to current media goal achievement reports 190 to determine a differential effect of new media purchases 14, as illustrated in **Figure 15**. Such comparisons are useful for predicting the effect of future media purchases 14. Such comparisons and predictions may also be shown in graphical form as illustrated in **Figure 20**.

Additional tabular reports, illustrating unique Internet user visits to an Internet web site, related sales and a percentage showing the conversion of the visits to sales for identified media purchasers, in stated geographic areas over various time periods, as illustrated in **Figures 17-19**, are also provided.

- 5 The media purchase goal correlation system **10** has been described with reference to particular embodiments. Other modifications and enhancements can be made without departing from the spirit and scope of the claims that follow.

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